

In the Claims

Please amend claims 33 - 42 as follows:

1 - 32. (Canceled).

33. (Amended) A tissue resectioning system, comprising:

a resection head mounted at a distal end of an elongate flexible body, the resection head including a marker thereon wherein, when in an operative position, the resection head is located within a body lumen with the elongate flexible body extending through the body lumen [[to]] from a naturally occurring body orifice;

an imager which remains outside the patient's body, the imager generating image data of a selected region within the patient's body including a predetermined portion of tissue marked for resection;

an image processing unit analyzing the image data to define a region of tissue to be resectioned and to locate the marker; and

a control unit controlling the resection head based on the defined region of tissue and the location of the marker to resect the region of tissue.

34. (Previously Presented) The system according to claim 33 wherein the imager includes a fluoroscope and an x-ray imaging sensor.

35. (Previously Presented) The system according to claim 33 wherein the marker is radiopaque.

36. (Previously Presented) The system according to claim 33 wherein the defined region of

tissue and the location of the marker are displayed on a video display coupled with the control unit.

37. (Previously Presented) The system according to claim 33 wherein the control unit disables the resection head if the marker indicates that the resection head is oriented outside the defined region of tissue.

38. (Previously Presented) The system according to claim 33 further comprising an alarm device wherein the control unit transmits an alarm signal to the alarm device when the marker indicates that the resection head is oriented outside the defined region of tissue.

39. (Previously Presented) The system according to claim 38 wherein the alarm device generates a visual alarm on the video display.

40. (Previously Presented) The system according to claim 33 wherein the imager is a magnetic resonance imager.

41. (Previously Presented) The system according to claim 33 wherein the control unit determines the defined region of tissue by an absolute measure of tissue.

42. (Previously Presented) The system according to claim 33 wherein the control unit determines the defined region of tissue by a percentage of a physical dimension of the lesion.